STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GEOTECH ENGINEERING & TESTING, INC.

# SOIL BORING LOG

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Date 06/06/2007

**ROUTE** FAP 522 (IL 96) **DESCRIPTION** IL 96 Over Thompson Creek **LOGGED BY** Brett Watkins

**SECTION** (6G-WPSO)BR **LOCATION** Dallas City, Illinois **SEC.** 2 **TWP.** 7N **RNG.** 7W **PM** 4

**COUNTY** Hancock **STRUCTURE NO.** 034-2005 **(Exist.)** 034-2524 **(Prop.)**

**BORING NO.** S-1 **DRILLING METHOD** Rotary / Hollow Stem **HAMMER TYPE** Automatic

Station 8+85
Offset R30
Ground Surface Elev. 538 (ft.)

Surface Water Elev. 524 (ft.)
Groundwater Elev.
First Encounter N/A (ft.)
Upon Completion N/A (ft.)
After N/A Hrs. N/A (ft.)

| SOIL DESCRIPTION | ELEV. (ft.) | DEPTH (ft.) | SPT N (blows) | UCS Qu (tsf) | MOIST. (%) |
|---|---|---|---|---|---|
| Topsoil | | | 2 | .5p | 14 |
| Firm, moist, dark brown, mottled, | | | 3 | | |
| Silty Clay Loam, A7-6 | 536.5 | | 3 | | |
| Soft, moist, lt. brown to dark brown | | | 1 | .5p | 15 |
| Silty Clay Loam, A-6 | | | 2 | | |
| | | | 1 | | |
| Soft, moist, lt. brown to dark brown | | | 2 | .5p | 22 |
| Silty Clay Loam A-6 | | -5 | 1 | | |
| | | | 2 | | |
| Firm, moist, brown to dark brown | | | 3 | 1p | 18 |
| Silty Clay Loam, A-6 | | | 2 | | |
| | | | 3 | | |
| Firm, moist, brown to dark brown | | | 2 | 1.5p | 18 |
| Silty Clay Loam, A-6 | 528.0 | -10 | 5 | | |
| | | | 7 | | |
| Firm, moist, brown to dark brown | | | | | |
| Silty Clay Loam, A-6 | | | | | |
| Auger Refusal @ 13.0 feet | 525.0 | -13 | | | |
| Hard, light gray crystalline limestone | | | | | |
| Start Rock Coring | | | | | |
| Recovery = 60% | | -15 | | | |
| Rock Quality Designation (RQD) = 33% | | | | | |
| Start 2nd Core Run | | -18 | | | |
| Recovery = 80% | | | | | |
| RQD = 42% | | -20 | | | |

| SOIL DESCRIPTION | ELEV. (ft.) | DEPTH (ft.) | SPT N (blows) | UCS Qu (tsf) | MOIST. (%) |
|---|---|---|---|---|---|
| Coring Terminated | 515.0 | -23 | | | |
| | | -25 | | | |
| | | -30 | | | |
| | | -35 | | | |
| | | -40 | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

GEOTECH ENGINEERING & TESTING, INC.

# SOIL BORING LOG

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Date 06/06/2007

**ROUTE** FAP 522 (IL 96) **DESCRIPTION** IL 96 Over Thompson Creek **LOGGED BY** Brett Watkins

**SECTION** (6G-WPSO)BR **LOCATION** Dallas City, Illinois **SEC.** 2 **TWP.** 7N **RNG.** 7W **PM** 4

**COUNTY** Hancock **STRUCTURE NO.** 034-2005 **(Exist.)** 034-2524 **(Prop.)**

**BORING NO.** S-2 **DRILLING METHOD** Rotary / Hollow Stem **HAMMER TYPE** Automatic

Station 10+00
Offset L15
Ground Surface Elev. 536.5 (ft.)

Surface Water Elev. 524 (ft.)
Groundwater Elev.
First Encounter N/A (ft.)
Upon Completion N/A (ft.)
After N/A Hrs. N/A (ft.)

| SOIL DESCRIPTION | ELEV. (ft.) | DEPTH (ft.) | SPT N (blows) | UCS Qu (tsf) | MOIST. (%) |
|---|---|---|---|---|---|
| Asphalt Surface (12-inches) | 535.5 | | | | |
| Firm, moist, dark brown, mottled, | | | 2 | .5p | 20 |
| Silty Clay Loam, A7-6 | | | 3 | | |
| | | | 2 | | |
| Soft, moist, lt. brown to dark brown | 533.5 | -3 | 0 | .25p | 16 |
| Silty Clay Loam A-6 | | | 1 | | |
| | | | 1 | | |
| Firm, moist, brown to dark brown | | -5 | 2 | .5p | 13 |
| Silty Clay Loam, A-6 | | | 2 | | |
| | | | 2 | | |
| Firm, moist, brown to dark brown | | | 1 | .5p | 20 |
| Silty Clay Loam, A-6 | | | 2 | | |
| | | | 1 | | |
| Firm, moist, brown to dark brown | | | 1 | .5p | 18 |
| Silty Clay Loam, A-6 | | -10 | 1 | | |
| | | | 2 | | |
| Firm, moist, brown to dark brown | | | 2 | .5p | 20 |
| Silty Clay Loam, A-6 | | | 2 | | |
| | | -13 | 5 | | |
| | 523.0 | | | | |
| Light gray crystalline limestone | | | | | |
| Highly weathered, augered | | | 4 | | 12 |
| | | -15 | 22 | | |
| | | | 50+ | | |
| | 520.5 | -16 | | | |
| Auger Refusal @ 16.0 | | | | | |
| Started Coring - | | | | | |
| Light gray crystalline limestone | | | | | |
| Weathered | | | | | |
| Recovery = 80% | | | | | |
| Rock Quality Designation (RQD) =42% | | | | | |
| | | -20 | | | |

| SOIL DESCRIPTION | ELEV. (ft.) | DEPTH (ft.) | SPT N (blows) | UCS Qu (tsf) | MOIST. (%) |
|---|---|---|---|---|---|
| Coring Terminated @ 21.0 Feet | 515.5 | | | | |
| | | -25 | | | |
| | | -30 | | | |
| | | -35 | | | |
| | | -40 | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

*SOIL BORINGS*
*STRUCTURE NO. 034-2524*

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DESIGNED PMH | GEOTECH ENGINEERING & TESTING, INC. | SHEET NO. 3 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| CHECKED CMW | | 3 SHEETS | 522 | (6G-WPSO)BR | HANCOCK | 41 | 26 |
| DRAWN MKK | | | | | CONTRACT NO. 68214 | | |
| CHECKED 9/18/09 | | | FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| FILE Box Culvert Details.dgn | | | | | | | |